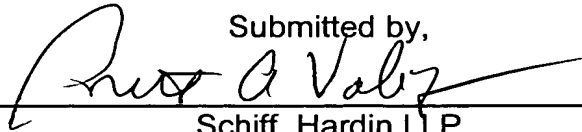


REMARKS

The Specification has been amended in accordance with U.S. practice.
New claims are presented many of which are based on the PCT claims, but
which are drawn in accordance with U.S. practice.

5 An Information Disclosure Statement is enclosed.

Submitted by,



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SPECIFICATION

TITLE

5 **CONTROL PANEL FOR AN ELECTROPHOTOGRAPHIC A PRINTER OR
COPIER SYSTEM WITH FRONT AND/OR REAR PROCESSING UNITS
AND INTEGRATED CONTROL PANEL IN A PRINTER SERVER**
invention SERVER

BACKGROUND

10 The disclosure concerns an ~~an electrophotographic~~ printer or copier system
with a pre-processing unit and/or a post-processing unit in which a common
control panel is provided for a printing unit and a processing unit. The
invention disclosure also concerns a method for the operation of an
electrophotographic printer or copier system with a pre-processing unit and/or
a post-processing unit as well as an operating unit for the operation of an
electrophotographic printer or copier system with a pre-processing unit and/or
15 a post-processing unit.

In known printer or copier systems, individual components (such as
printers, pre- and post-processing units) in what are known as printer or
copier paths respectively have a separate control panel whose user interface
has been created for the respective component. Furthermore,
20 electrophotographic printer or copier systems are known in which a common
control panel is provided for a feeder unit and a ~~print~~ [sic] print unit. The control
panel has been operated with the aid of a special software that provides a
common user interface for the feeder unit and the print unit. However, an
exchange of the feeder unit with a feeder unit of another type is only possible
25 when the software of the operating unit has been exchanged. An integration
of further components of the print path is not possible in known
electrophotographic printer or copier systems. Thus various components of
the print path have different user interfaces with different operating
philosophies. A simple and central operation of the print path is presently not
30 possible in electrophotographic printer or copier systems. A printer or
copier in which the operation of accessory devices for pre-and/or post-
processing can be mutually operated via a common operating unit of the

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printer or copier is known from the document DE 196 11 645 A1. Based on the sensor signals, a controller of the printer or copier generates ~~corresponding~~ [sic]corresponding signals for the control of various working devices within the printer or copier. A printing system with two printers working in tandem
5 operation is known from the document DE 198 36 745 A1, whereby at least the control panel computer of the first printer and second printer are connected with one another via a data line. The document is a disclosure document of a patent application by Océ Printing System GmbH. A control unit of the first printer and a control unit of the second printer are also
10 connected with one another via a data line. Changed setting values are automatically directly transmitted to the other control unit, such that other parameters can be adapted in the second control unit with the aid of the transmitted adjustment value. From the document US 2001/0055492, a printer or copier is known in which a user interface for a supervisor is also
15 provided over a network with the aid of a web server. In particular settings of the printer or copier can thereby also be set simply from a remote location.

SUMMARY

It is ~~thean~~ an object of the invention to specify ~~an electrophotographic~~ a printer or copier system with a pre-processing unit and/or a post-processing unit, in
20 which both the operation of the printer or copier system and the pre- and/or post-processing systems is possible in a simple manner with a common operating unit. It is also ~~thean~~ an object of the invention to specify a method for the operation of a printer or copier system with a pre-processing unit and/or a post-processing unit as well as an operating unit via which ~~it is simply possible~~
25 ~~to simply operate electrophotographic~~ the operation of printer or copier systems with pre- and/or post-processing unit and/or post processing unit. ~~This object is achieved for an electrophotographic~~ units is possible in a simple manner. A printer or copier system with ~~pre-processing unit and/or post-processing unit via the features of the patent claim 1.~~ Advantageous developments are specified in the
30 ~~dependent patent claims~~ at least one of a pre-processing unit and a post-processing unit comprises a printing unit that generates a print image on a carrier material. An operating unit is connected via a data line with the

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printing unit. The operating unit outputs at least one graphical user interface on a display for operation of the printing unit. At least one processing unit is connected with at least one of the printing unit and the operating unit for processing of the carrier material such that data are transferable between the processing unit and at least one of the printing unit and the operating unit. In the processing unit, data are stored that are transferred to at least one of the printing unit and the operating unit with which the graphical user interface is activated at least for operation of the processing unit.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a block diagram of a printing system with two operating units; Figure 2 is a flow plan for the integration of a user interface of a roller unit in user interfaces of the operating units of the printing system according to Figure 1;

Figure 3 is a graphical user interface of a print server; Figure 4 shows the graphical user interface of the print server according to Figure 3, whereby a control panel of a printing system is integrated into this user interface;

Figure 5 is a section of the graphical user interface according to Figure 4 with a control panel for a printing unit, a pre-processing unit and a post-processing unit; Figure 6 is a graphical user interface according to a second exemplary embodiment, whereby shown are a user interface to set paper parameters of the printing unit and a plurality of function keys for the operation of the printing unit; Figure 7 is a graphical user interface according to a third exemplary embodiment of a graphical user interface in a first display mode; Figure 8 shows the graphical user interface according to Figure 7 in a second display mode; Figure 9 is a user interface for the operation of two printing units; and Figure 10 is a printing system with four operating units.

DESCRIPTION OF THE PREFERRED EMBODIMENT

For the purposes of promoting an understanding of the principles of the invention, reference will now be made to the preferred embodiment illustrated in the drawings and specific language will be used to describe the same. It will nevertheless be understood that no limitation of the scope of the invention

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is thereby intended, such alterations and further modifications in the illustrated device, and/or method, and such further applications of the principles of the invention as illustrated therein being contemplated as would normally occur now or in the future to one skilled in the art to which the invention relates.

5 Primarily in that data that are transmitted to the printing unit and/or to the operating unit are stored in the processing unit, a graphical user interface can at least be activated for the operation of the processing unit. A user interface, via which the operation of a processing unit is also possible with the aid of the operating unit for the operation of the printing unit, can thereby be
10 provided or activated in a simple manner. Both the printing unit and the processing unit are thus also operated via a common operating unit without the installation of a software specially adapted to the printing unit and the processing unit. After the connection of the processing unit with the printing unit or with the operating unit, the data can, for example, be immediately
15 transmitted to the operating unit that then automatically supplements the user interface with components for the operation of the processing unit. With the aid of the common operating unit, it is further achieved that a uniform operating philosophy as well as a centrally overseen operation of entire printer or copier paths is possible. The printer or copier system is preferably an
20 electrophotographic printer or copier system. A second aspect of the invention concerns a method for the operation of an electrophotographic printer or copier system with a pre-processing unit and/or post-processing unit. Via this method, the processing unit can be simply operated via the operating unit of the printing unit or an autonomous operating unit via simple connection of the
25 printing unit with a pre-processing unit and/or post-processing unit. The operating unit is then what is known as a Single Point of Operation, since both the printing unit and the pre-processing unit and/or post-processing unit can be operated via the operating unit. A uniform operating philosophy can thereby also be changed simply. ~~A third aspect of the invention concerns an~~ An
30 electrophotographic printer or copier system with this preferably simply operated with the aid of the method according to the second aspect.

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A third aspect concerns a printer or copier system with a pre-processing unit and/or post-processing unit, in which system a data processing unit is provided that controls and monitors the execution of print jobs of at least one printing unit and furthermore provides at least one graphical user interface for the operation of the printing unit and/or the processing unit. It is thereby simply possible to operate the printer or copier system as well as the pre-processing unit and/or post-processing unit with the aid of the same data processing unit with which the execution of the print jobs is also controlled and monitored. For example, an operating personnel can thereby both generate and coordinate the print jobs and operate the printer or copier system with pre-processing unit and/or post-processing unit from a central location. Separate operating units at the printer or copier system as well as at the pre- and/or post-processing units are no longer absolutely necessary. The operation of the printer or copier system thereby occurs centrally in a simple manner. Given such an inventive electrophotographic printer or copier system, a further printer or copier system can also be operated via the data processing unit via the graphical user interface.

A fourth aspect concerns a further method for the operation of a printer or copier system with a pre-processing unit and/or post-processing unit. In this method, the execution of a print job is controlled and monitored by a data processing unit, whereby furthermore a graphical user interface is provided by the data processing unit for the operation of the printing unit and/or of the processing unit. With the aid of such a method, it is simply possible to implement the print preparation and print job control and simultaneously the operation of the printing unit and/or the processing unit from a data processing unit. A simple and clear operation of the printing unit and/or the processing unit is thereby possible. Separate control panels for the printing unit and/or the processing unit are not necessary.

The printer or copier system according to the third aspect of the invention concerns a further method for the operation of a printer or copier system with a pre-processing unit and/or post-processing unit. In this method, the execution of a print job is controlled and monitored by a data processing unit, whereby furthermore a graphical user interface is provided by the data processing unit for the operation of the printing unit and/or of the processing unit. With the aid of such a method, it is simply possible to implement the print preparation and print job control and simultaneously the operation of the printing unit and/or the processing unit from a data processing unit. A simple and clear operation of the printing unit and/or the processing unit is thereby possible. Separate control panels for the printing unit and/or the processing unit are not necessary.

The method according to the fourth aspect of the invention is preferably used for the operation of an electrophotographic printer or copier

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system. A fifth aspect concerns an operating unit for at least one electrophotographic printer or copier. The operating unit has a display unit that outputs a graphical user interface. The graphical user interface has a first section with a user interface on which input and/or output fields can be
5 displayed with information about parameters of the printer and/or a processing unit connected with the printer. The user interface has a second section in which a menu is contained via which a user interface that is shown in the first section can be selected from a plurality of displayable user interfaces. The user interface has at least a third section in which at least one graphical
10 function key is contained for the operation of the printer and/or the processing unit connected with the printer. A very simple and clear operation of the printer and of processing devices connected with the printer is possible via such an inventive operating unit. A uniform operating philosophy can also be realized simply with such an operating unit. Faulty operations of individual
15 processing units are at least reduced via the uniform user interface. A change between a plurality of user interfaces is simply possible via the menu, whereby graphical function keys for important operating functions are provided in the third section. A simple operation of components of complex printing paths is thereby simply possible. Orientation times are thereby
20 reduced. The operating unit preferably serves to operate an electrophotographic printer or copier. ~~A sixth aspect of the invention~~ concerns a method for the operation of an ~~electrophotographic~~ printer or copier. Via the division of the graphical user interface into three sections, a simple and clear operation of the printer or copier and of whole printer or
25 copier paths is possible. The method according to the sixth aspect is preferably used for the operation of an electrophotographic printer or copier.

For the better understanding of the ~~present invention~~ preferred embodiment, reference is made in the following to preferred exemplary embodiments shown in the drawings that are described using specific
30 terminology. However, it is noted that the protective scope of the invention should not thereby be limited, since such variations and further modifications to the shown devices and/or the methods as well as such further applications

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of the invention as they are indicated therein are viewed as typical present or future specialized knowledge of a competent average man skilled in the art.

~~Figures show exemplary embodiments of the invention, namely: Figure 1 a block diagram of a printing system with two operating units; Figure 2 a flow plan for the integration of a user interface of a roller unit in user interfaces of the operating units of the printing system according to Figure 1; Figure 3 a graphical user interface of a print server; Figure 4 the graphical user interface of the print server according to Figure 3, whereby a control panel of a printing system is integrated into this user interface; Figure 5 a section of the graphical user interface according to Figure 4 with a control panel for a printing unit, a pre-processing unit and a post-processing unit; Figure 6 a graphical user interface according to a second exemplary embodiment, whereby shown are a user interface to set paper parameters of the printing unit and a plurality of function keys for the operation of the printing unit; Figure 7 a graphical user interface according to a third exemplary embodiment of a graphical user interface in a first display mode; Figure 8 the graphical user interface according to Figure 7 in a second display mode; Figure 9 a user interface for the operation of two printing [sic] units; and Figure 10 a printing system with four operating units.~~

A block diagram of a printing system 10 is shown in Figure 1. The printing system 10 comprises a roller unit 12 for a band-shaped carrier material (such as, for example, a paper roll), a printing unit 14 to print the continuous carrier material and a cutting unit 16 to cut the carrier material after the printing. The printing system 10 furthermore comprises a first operating unit 18 and a second operating unit 20. The first operating unit 18 and the second operating unit 20 are connected with the printing unit 14 via a local network, for example via a LAN (local area network). The roller unit 12 and the cutting unit 16 are respectively connected with the printing unit 14 via at least one data line.

After the connection of the roller unit 12 with the printing unit 14, data are transferred (over the data line) via which, in the printing unit 14, data are read out from a storage region to generate a common graphical user interface for the roller unit 12 and the printing unit 14. The cutting unit 16 likewise transfers data to the printing unit 14 via which the printing unit 14 reads out

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data from a storage region for the generation of a user interface for the roller unit 12, the printing unit 14 and the cutting unit 16. This common graphical user interface is then displayed both on the operating unit 18 and on the operating unit 20.

5 The data transferred from the roller unit 12 to the printing unit 14 comprises at least information to identify the type of the roller unit 12. With the aid of the type of the roller unit 12, the printing unit 14 determines the data from a data storage in which at least the data to generate a user interface of the roller unit 12 and the cutting unit 16 are stored, said data being necessary
10 to generate the user interface as well as to generate a special user interface for the operation of the roller unit 12. The special user interface is integrated into the user interface. In the same manner, the data transferred from the cutting unit 16 to the printing unit 14 comprises at least specifications about the type of the cutting unit 16, whereby with the aid of this data a control panel
15 for the operation of the cutting unit is generated with the aid of data stored in the printing unit 14. A data processing unit of the printing unit 14 thereby generates a user interface with which both the printing unit 14 and the roller unit 12 and the cutting unit 16 are operable. A registration of the cutting unit 16 and the roller unit 12 in the printing unit 14 thus occurs with the aid of the
20 data transferred from the roller unit 12 and the cutting unit 16. A central control unit (not shown) arranged in the printing unit 14 for the control of the print process of the entire printing system 10 furthermore receives information for the control of the roller unit 12 and the cutting unit 16 via the data transferred from the roller unit 12 and the cutting unit 16. This control unit
25 can, for example, also be comprised in the data processing unit of the printing unit 14.

 Alternatively, data that contain all information about the roller unit 12 necessary for the generation of a common user interface of the printing unit 14 and the roller unit 12 are transferred from the roller unit 12 to the printing
30 unit 14. Furthermore, these data also comprise detailed information (that is needed by the central control unit arranged in the printing unit 14 for the control of the roller unit 12) for the generation of a control panel for the roller

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unit 12 and to control the roller unit 12. In the same manner as from the roller unit 12, data that comprise all information necessary for the generation of a common user interface of the printing unit 14 and the cutting unit 16 are transferred from the cutting unit 16 to the printing unit 14. Furthermore, data
5 are transferred from the cutting unit 16 to the printing unit 14, via which data a control of the cutting unit 16 via a central control unit of the printing unit 14 and the generation of a control panel for the cutting unit ~~is~~are enabled. The generated user interface is output on the operating unit 18 and/or on the operating unit 20. The control panels primarily contain input and output fields
10 for the display and output of parameters and measurement values as well as counted values of the printing unit 14, the roller unit 12 and the cutting unit 16.

The registration of the roller unit 12 and the cutting unit 16 with the printing unit 14 as well as the transfer of the data from the roller unit 12 and the cutting unit 16 to the printing unit 14 preferably occurs automatically after
15 the connection of the roller unit 12 with the printing unit 14 over a first data line and the cutting unit 16 with the printing unit 14 over a second data line. The roller unit 12, the printing unit 14 and the cutting unit 16 are preferably connected with one another via a common network to which in particular the operating units 18, 20 are also connected.

20 A flow chart is shown in Figure 2 for the integration of the roller unit 12 into a graphical user interface that is generated by a data processing unit and is output by the operating units 18, 20. Identical elements have the same reference characters. The user interface serves for the operation of the printing unit 14 ~~and~~and of the roller unit 12. The process is started in the step
25 S10. In step S12 the roller unit 12 and the printing unit 14 are subsequently connected with one another via the data line. After the connection of the roller unit 12 and the printing unit 14 in step S12, in step S14 data are transferred at least from the roller unit 12 to the printing unit 14. Information about the roller unit 12 are subsequently inserted into the device table of the printing unit 14
30 with the aid of the transferred data. The device table of the printing unit 14 comprises information about the devices, components and assembly groups of the printing system 10. The device table is administered with the aid of

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what is known as an SNMP agent (SNMP = Simple Network Management Protocol). After the updating of the device table in step S16, a common graphical user interface of the roller unit 12 and the printing unit 14 is generated that is transferred to the operating units 18 and 20. The graphical
5 user interface is also designated as a GUI (graphical user interface). After the transfer of the data to the operating units 18, 20, in step S20 with the aid of the transferred data an updated user interface is displayed on display units of the operating units 18, 20 with the aid of display programs, what are known as browser program modules. The process is ended in step S22.

10 A graphical user interface of a print server is shown in Figure 3. This print server is responsible for the processing and coordination of print jobs that should be executed by the printing system 10. The graphical user interface 21 comprises a tree-like menu 22 in which a menu 24 with the designation "All Jobs", subordinate to the print server with the network
15 address 160.120.21.3, has been selected by an operating personnel. Via this selection, the print job 30 still not executed is displayed in the window 25. Furthermore, a bar 28 with graphical function keys via which the execution of the print job 30 can be controlled is displayed in the window 25. Both the bar 28 and the print job 30 are contained on a tab 26 with the designation "All
20 Jobs". A control panel of the printing system 10 can be called by invoking a menu entry 31, "control panel".

A graphical user interface 32 of the print server 160.120.21.3 is shown in Figure 4, whereby, in contrast to the user interface 21 according to Figure 3, in the user interface 32 the control panel function for the operation of the
25 printing unit 14 is activated. The user interface 32 is generated in that the menu entry 32 in the menu 22 is activated. A control panel menu 34 is thereupon generated, in that the physical units and assembly groups operable with the aid of the operating unit are listed. Furthermore, in the window 25 is a graphical representation of the components of the printing system 10
30 operable with the aid of the user interface 32.

In particular, depictions with input and output fields for the control of the printing unit 14 can be selected and displayed in the window 25 via selection

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of the printer 14 in the window 25 or via selection of sub-menus in the control panel menu 34. Furthermore, the window 25 contains a field 38 with function keys for fast access to functions and/or control panel views as well as display fields associated with the function keys. The control panel views in the
5 window 25 and the region 38 with function keys are associated with the tab 36. Via selection of the tab 36 or the tab 26-~~[sic]~~ the print server view and the control panel can simply be switched between. The control panel shown in the window 25 contains a graphical representation of the printing unit 14 and operating unit 18 on which the graphical user interface 32 can be displayed.

10 A section of the graphical user interface 32 according to Figure 4 is shown in Figure 5 after the roller unit 12 and the cutting unit 16 have been connected with the printing unit 14. As already specified in connection with Figures 1 and 2, data are respectively transferred to the printing unit 14 from the roller unit 12 and the cutting unit 15. The menu 34 was supplemented
15 with the menu items 3: post-processing, 4: pre-processing with the aid of this data. In this exemplary embodiment, the post-processing concerns the cutting device 16 and the pre-processing concerns the roller unit 12. Furthermore, respectively a graphical representation of the roller unit 12 and a graphical representation of the cutting unit 16 have been added to the
20 graphical representation of the printing unit 14 in the window 25.

A representation of the user interface 32 according to a second exemplary embodiment is shown in Figure 6, whereby the printer menu 40 of the printing unit 14 is selected and activated in the control panel menu 34, in that a hierarchically subordinate paper menu 42 has been selected. After this
25 selection of the paper menu 42, paper parameters of the paper web supplied to the printing unit 14 are displayed in the window 25. The paper parameters can be simply set by an operating personnel with the aid of the combined input and output fields 44 through 64. Furthermore, the user interface 32 contains a region 66 in which a shifting of the position of a print image
30 generated on a front side of the paper web ~~are~~-~~[sic]~~is implemented with regard to a print image generated on the back side. The shifting can be implemented with the aid of the function keys arranged in the bar 68. Further function keys

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for the simple control of the printer have been added in the display field 38 via the selection of the printer menu 40. Thus, for example, the graphical function keys 69 through 80 in the region 38 and the display elements arranged over these keys are based, with regard to their depiction and function, on input
5 keys and display elements present as hardware on the printing unit 14, whereby via the function keys 69 through 80 an operating personnel can operate the printing unit 14 in the same manner as via the hardware input keys arranged on the printing unit 14. The operation of the printing unit 14 is thereby made easier for the operating personnel.

10 Shown in Figure 7 is a first representation of a graphical user interface for the operation of a printing system 84 according to a third exemplary embodiment ~~of the invention~~. The representation of the graphical user interface 82 according to Figure 7 comprises a menu 86, a region 88 with graphical function keys (what are known as buttons), a region 90 in which
15 current printer parameters are displayed from which one parameter can be selected regarding which further subordinate parameters can then be displayed in the window 92. An error message regarding a current occurred error is output in an output field 94. An indication as to how an operating personnel obtains access to the error location occurs with the aid of an arrow
20 96. In both the menu region 86 and in the input and output region 90, the information and menus are arranged such that they contain a multitude of entries and information and can be operated simply with the aid of a computer mouse. The first representation of the graphical user interface 82 according to Figure 7 is adapted for a mouse operation. Via activation of the function
25 key 98, the operating type of the user interface 82 can be changed to a touch-sensitive screen with what is known as finger operation. Such a touch-sensitive screen comprises sensors on the surface or in the border above the display plane that detect the contact by a pen or a finger. With the aid of these sensors, inputs for function control of a program are provided in a manner similar to the operation via a computer mouse. However, for the
30 operation via finger inputs with the aid of a touch-sensitive screen, the distances between activatable input surfaces must be selected

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correspondingly large in order to not simultaneously activate adjacent input fields given a contact of the touch-sensitive screen with a finger. In contrast to the representation of the user interface for mouse input, the input regions in the representation for touch input with the aid of a finger must thus be
5 arranged removed correspondingly far from one another.

The graphical user interface 82 is shown in Figure 8 in a second representation for the input with the aid of a finger via a touch-sensitive screen. In the first representation of the graphical user interface 82 in Figure 7, as already described a switch-over to the representation for touch-sensitive
10 input as it is shown in Figure 8 is possible with the aid of the function key 98. The individual symbols and buttons in the input field 88a of the user interface 82a are shown enlarged. The output field 94a for the output of the error message is also shown enlarged in the representation of the user interface 82a relative to the user interface 82. The menu entry 87a in the menu 86a is
15 shown enlarged relative to the menu entry 87, whereby the hierarchically subordinate menu entries are only displayed after a selection of the menu entry 87a in the menu 86a. The number of the input and output fields in the region 90a is reduced in the user interface 82a relative to the user interface 82. The output field 92a with the representation of the printer 84 substantially
20 coincides with the output field 92 of the user interface 82.

In Figure 9, a control panel is shown for two printers that have been combined into what is known as a twin unit. Such a twin unit comprises at least two significantly identically designed printers, whereby the first printer prints the front side of a carrier material with a print image and the second
25 printer subsequently prints the back side of the carrier material with a print image. The printers of a twin unit are separate components that are arranged at least at a distance from one another, whereby an inverting device can be provided between the two printing units. With the aid of such a twin unit, continuous carrier material is preferably printed that is subsequently further
30 processed, for example with the aid of a cutting unit. With the aid of such an operating unit, parameters that are the same for both printers can be simultaneously changed for both printers. For this, a parameter is changed

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only in an input field for one printer, whereby this parameter is then also changed identically for the second printer. Tabs 100 and 102 are provided for other parameters such as, for example, toner parameters given different toner colors of the first and second printer, fixing temperatures, print image scales and further different parameters, whereby the tab 100 comprises parameters of the printer 1 and the tab 102 comprises parameters of the printer 2. With the aid of these tabs, a simple ~~switch-over~~switchover of the user interface for the adjustment of the parameters of the first printer and the parameters of the second printer is possible.

However, with the aid of such a twin unit the carrier material can also be printed two-color on one side, whereby a print image is printed in a first color by the printer 1 and a print image is printed in a second color by the printer 2, one atop the other on the same side of the carrier material. At least one printer of the twin unit can also generate a print image with a special toner, for example a magneto toner.

Given reciprocally influencing parameters of the first and the second printer, given a change of one parameter the influenced parameter can be automatically changed in a suitable manner. If, for example, the fixing temperature of the first printer is increased, the image scale of the second printing unit is reduced in order to attain print images of precise registration.

A printing system 10 in which the printing unit 14 comprises a printer controller 104 is shown in Figure 10. The operating units 114, 116, 118, 120 are connected with an RMI server 122 (RMI: Remote Method Invocation) via data connections 106 through 112. The RMI server 122 is provided by the printer controller 104. The RMI server 122 provides data for the display of user interfaces on the operating units 114, 116, 118, 120. Furthermore, the RMI server assigns a write access right to the operating unit 114 given a write request via the control panel 114, for example given an input by an operating personnel via an input field on the control panel. Via an operating input on the operating unit 114, this write access right can be returned such that, given a write request via the operating units 116, 118 or 120, it can also be assigned

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to these. The write access right can only be assigned to one of the operating units 114, 116, 118, 120 at a time.

A higher-prioritized operating unit such as, for example, the operating unit 118, ~~[sic]~~ given a user input, the write access right can also be forcibly
5 removed from the operating unit 114 and be assigned to the operating unit 118. The operating unit 114 and the operating unit 116 respectively contain a browser program module with support for the programming language JAVA, whereby RMI objects can be processed. Such a browser program module can, for example, be Microsoft Internet Explorer or Netscape Navigator,
10 whereby these program modules are respectively executed by the data processing unit of the operating units 114, 116. In the operating unit 118, the control panel is integrated into an application, for example in a print server application, as it is shown, for example, in Figures 3 through 6. The operating unit 120 comprises a JAVA application that access the data of the RMI server
15 122 and with this data displays a control panel. The operating units 112 through 120 are what are known as RMI client that access requisition services provided by the RMI server and display control panels with the aid of these services.

For the administration of the write access right, what is known as an
20 access ticket 124, via which a simple administration of a write access right is possible, can also be used. To request a write access right when the write access ticket 124 is already allocated, a message regarding the request of the write access right can also be generated that is then transmitted to the operating unit 114 to which the access ticket 124 is allocated. This message
25 is then output with the aid of the control panel, whereby an operating personnel is informed about the request for the write access and can, if applicable, return or, respectively, release the write access ticket 124.

Although a preferred exemplary embodiments ~~are~~ embodiment is displayed and specified in detail in the drawings and in the preceding
30 specification, these should be viewed as purely exemplary and not as limiting the invention. It is noted that only the preferred ~~embodiments~~ are embodiment is are shown and described, and all variations and modifications

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should be protected that presently and in the future lie within the protective scope of the invention.

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Reference list

	10	printing system
	12	roller unit
5	14	printing unit
	16	cutting unit
	18, 20	operating unit
	S10 through S22	method steps
	21	graphical user interface
10	22	menu
	24	subordinate menu
	25	window
	26	tab
	28	bar with function keys
15	30	print job
	31	menu item
	32	user interface
	34	control panel menu
	36	tab
20	38	display and input field with function keys
	40	submenu printer
	42	menu item paper menu
	44 through 64	input fields
	66	input region for page positioning
25	68	function keys for page positioning
	69 through 80	function keys
	82, 82a	graphical user interface
	84	printer
	86, 86a	menu
30	87, 87a	menu item
	88	region with graphical function keys
	90	input and output fields

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- 92 ————— display region control panel
- 94 ————— output field for error message
- 96 ————— indication arrow error location
- 98 ————— switch over key for touch screen operation
- 5 98a ————— function key for switch over mouse operation
- 100, 102 ————— tabs
- 104 ————— printer controller
- 106 through 112 ————— data lines of a LAN
- 114 through 120 ————— operating units
- 10 122 ————— RMI server
- 124 ————— write access ticket

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ABSTRACT OF THE DISCLOSURE

- A printer or copier system with at least one of a pre-processing unit and a post-processing unit, comprises a printing unit that generates a print image on a carrier material. An operating unit is connected via a data line with the
- 5 printing unit. The operating unit outputs at least one graphical user interface on a display for operation of the printing unit. At least one processing unit is connected with at least one of the printing unit and the operating unit for processing of the carrier material in such that data are transferable between the processing unit and at least one of the printing unit and the operating unit.
- 10 In the processing unit, data are stored that are transferred to at least one of the printing unit and the operating unit via with which the graphical user interface is activated at least for operation of the processing unit.